



A.H. Hoffman, Inc.
P.O.Box 290
Lancaster, NY 14086

Date: June 1, 2000
MSDS Number: OF 20204 (d)
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MATERIAL SAFETY DATA SHEET

BONE MEAL (ORGANIC)

SECTION I - IDENTIFICATION

Bone Meal (Organic)
Product(s) #20204, 20208, 20220, 20245

Manufactured by: AH Hoffman, Inc.
167 Greenfield Road
Lancaster, PA 17605

SECTION II - HAZARDOUS INGREDIENTS / IDENTITY INFORMATION

Hazardous Components (Specific Chemical
Identity; Common Name(s):
Other Limits Recommended
% (optional)

Granulated Bonemeal; Steamed Bonemeal;
Calcium Phosphate Carbonates with Protein
Not Applicable
Not Applicable

SECTION III - PHYSICAL/CHEMICAL CHARACTERISTICS

Boiling Point:	Not Applicable
Specific Gravity ($H_2O = 1$):	1.7 - 2.0
Vapor Pressure (mm Hg.):	Not Applicable
Vapor Density (AIR = 1):	Not Applicable
Solubility in Water:	Some
pH (5% in water):	6.5 - 8.5
% Volatile:	<5% (moisture)
Evaporation Rate (Butyl Acetate = 1):	Not Applicable
Appearance and Odor:	Bonemeal odor; light to dark tan colored granules.
Physical state:	Solid

SECTION IV - FIRE AND EXPLOSION HAZARD DATA

Flash Point (Method used):	Not Applicable
Flammable Limits:	Not Applicable
LEL	None
UEL	None
Extinguishing Media:	Use that which is appropriate for the surrounding fire. This material is noncombustible.
Special Fire Fighting Procedures:	Not Applicable
Unusual Fire and Explosion Hazards:	Beware of smouldering granules.



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SECTION V - REACTIVITY DATA

Stability:

Unstable	Not Applicable
Stable	Applicable
Conditions to Avoid	Not Applicable

Incompatibility (Materials to Avoid)

None

Hazardous Decomposition of Byproducts

May release ammonia under fire conditions.

Hazardous Polymerization:

May Occur	Not Applicable
Will Not Occur	Applicable
Conditions to Avoid	Not Applicable

SECTION VI - TOXICOLOGICAL PROPERTIES

Route(s) of Entry:

Inhalation?	Applicable
Skin?	Not Applicable
Ingestion?	Applicable

Health Hazards (Acute and Chronic):

(Acute) - Breathing difficulty with excess inhalation

Carcinogenicity:

NTP?	Not Applicable
IARC Monographs?	Not Applicable
OSHA Regulated?	Not Applicable

Exposure Limits:

ACGIH-TLV:	10 mg/m ₃
OSHA-PELV:	15 mg/m ₃

Signs and Symptoms of Exposure:

None

Medical Conditions Generally Aggravated by Exposure:

None

Comments:

Considered a nuisance dust



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SECTION VII - PREVENTATIVE MEASURES

Personal Protective Equipment:

Respiratory Protection:

If excessive dust, use NIOSH/MSHA dust respirator.

Other:

None

Ventilation:

Use ventilation sufficient to control dust.

Storage Requirements:

Store in cool, dry conditions.

Disposal and Cleanup:

If released to land, stop discharge and contain. If released to water, contain by damming and divert water if possible. Collect product and contaminated water for disposal.

~~Contaminated material not unsuitable can be used as~~
fertilizer. Otherwise, dispose at approved landfill following local, provincial and federal guidelines. Do not dispose in sewage system due to plant nutrients.

SECTION VIII - FIRST AID

Inhalation:

Remove to fresh air. If not breathing, give artificial respiration. Obtain medical attention.

Skin:

Wash with soap and water.

Eyes:

Flush with water at least 10 minutes. Obtain medical attention.

Manufacturer's Notification

The information contained herein is based on the data available to us and is believed to be correct. However, Hoffman makes no warranty, expressed or implied, concerning the accuracy or completeness of this information. Hoffman assumes no responsibility for injury to vendee or third parties from the use of the product described herein.